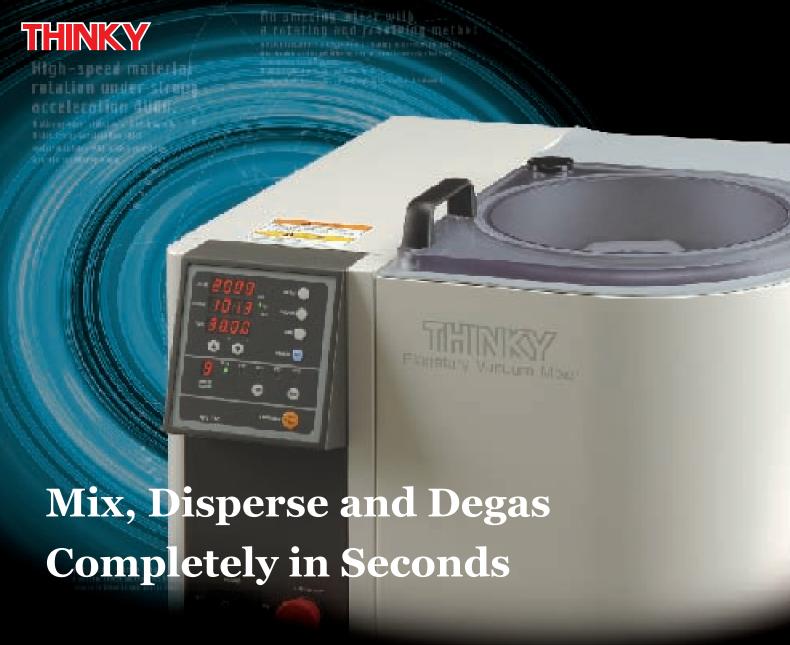


RODUKTINFORMATION

THINKY Mixer ARV-310 / ARV-310LED / ARV-310P



Planetary Centrifugal Mixer

THINKY"Vacuum"Mixer

ARV-310

Squeeze and vacuum all air bubbles out from the mixture This is the power of vacuum centrifugal mixer

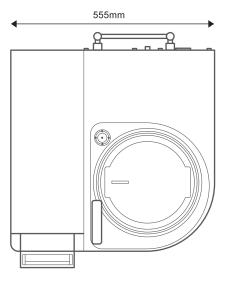
- Disperse and de-agglomerate all types of materials.
- Deaerate down to sub-microns extremely rapidly due to centrifugal mixing process in vacuum pressure, regardless viscosity of materials.
- NO overflows, NO monitor of the system. 400Gs force applied to materials has ended overflow materials in degassing process.
- Select your preferred unit of measurement. KPa or Torr
- Easy operation. Load material container and press the start button. Process can be controlled as programmed.
- Precise control on materials. Program different 5 sequential mixing steps in a cycle.
- Recall the programmed cycle. 9 memory slots are available.

For the Best Result



Planetary Centrifugal Vacuum Mixer

THINKY Mixer ARV-310



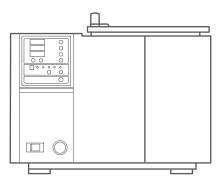
Vacuum deaeration is a time consuming work, which requires your dedicate monitor on materials for overflow control, through long time processing.

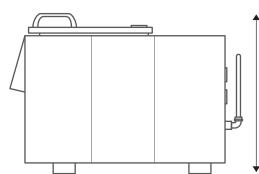


ARV-310 causes NO material overflow in the process. Process itself will be done in

The lid slides and has a wide open working area.









Standard Accessories;

90kg. (198lb.)

Rotation speed sensor

300ml or 150ml jar, HDPE

- (1) 300ml reusable container x 3 pieces
- (2) 150ml reusable container x 1 piece
- (3) 150ml container adapter x 1 piece

H440×W555×D645 (mm)

Lid Locking system, Vibration Sensor,

ARV-310 Ma	ARV-310 Main Specifications					
Model Number	ARV-310	Vacuum Chamber	Rotator in Vacuum			
Product Name	"Planetary Centrifugal Mixer THINKY Vacuum Mixer"	Vacuum pump capacity	200 Pa (2Torr), 100 liter / minute			
Method	Non-contact, planetary motion centrifugal mixing method	Vacuum Pressure	0.67 Kpa (5Torr) - Air pressure			
Process Cycle Time	1 seconds to 30 minutes	Revolution Speed	0, 200 - 2,000RPM 10RPM Increment			
Program Memory	9 slots	Rotation Speed	0 - 1000RPM Follows Revolution Speed / 2			
Maximum mixing capacity	Air 250ml, 310g (300ml jar) 150ml, 310g (150ml jar)	Power Supply	Single Phase 100VAC \pm 10% 50hz/60hz			
(gross weight)	* 200ml, 310g (300ml jar) 120ml, 310g (150ml jar)	rowel Supply	Power consumption Standby : 50VA // In process : 1,100VA			
Multi-Step Mixing	1-5 steps in a cycle	Operating Environment	10-35°C, 35-85%RH (Non-condensation)			

- *Process half of ML capacity of your mixing cup with no use of its lid. Lid is with hole in the middle.
- Specification is subject to change without notification.
- The mixing results may vary depending on processing conditions or materials.
- The unit is NOT explosion-proof.
- Material could heat by shear given in the process.

Optional Adapters

Unit Dimensions

Unit Weight

Safety Features

Standard Containers



Please ask THINKY sales representatives for all adapters available in your country or custom made adapters for your specific containers.

Pioneer of Centrifugal Mixer



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THINKY Business Partner;



ARV-310LED CE

≪ New Product info ≫

THINKY Corporation International Marketing Department Tokyo 81+3-5821-7455

NEW !!



ARV-310LED CE

★Uniform mixing and dispersing ★No air bubbles are observed



Optic Microscope (x100)

— Specification —

opecinication				
Product name	"THINKY mixer" Rotation/Revolution propeller-less mixing in vacuum			
Model	ARV-310 LED CE			
Max process volume	Air 250mL / *Vacuum 200mL (*Use innner and outer lid with an air vented hole)			
Max process weight	310g (Gross)			
Standard container	300mL and 150mL containers (HDPE)			
Operating time setting range	0 seconds to 30 minutes (in the unit of 1 sec.)			
Maximum revolution speed	1,200 rpm			
Ultimate Vacuum	0.67kPa			
Vacuum pump ability	266 Pa (Approx. 2 Torr) 100L/min.			
Vacuumimg style	Rotating part vacuum chamber			
Programing memory	9 slots (each 5 steps in 1 slot)			
Safety features	Lid locking, Vibration sensor, Revolution speed sensor, Pressure sensor, Emergency bu			
Power supply	Single phase 230V 50/60Hz			
Operating environment	10~35℃、35~85%RH(Non-condensation)			
Unit dimensions	450 H x 555 W x 645 D(mm)			
Unit Weight	Approx. 90 kg			
Options	Please consult with our sales representitive.			





Meeting traceability needs in operating processes

THINKY Mixer ARV-310P

Touch panel

Recipe Management Improved

- ✓ Register up to 20 recipes, each specified by an appropriate name.
- ✓ Real-time display and check of recipe progress and operating status
- ✓ Easy identification of causes of error by clear display of error status with a corresponding explanation



Communication function

Support automatic operation and log report

- ✓ An external terminal for recipe selection and loading as well as operation start and stop available
- During remote control, external terminal instructions are prioritized and main unit panel operation is disabled.
- ✓ Supports equipment function of reporting progress and operating status every second.
- ✓ Sample software for remote operation available free of charge (for Windows 7, 8, and 10)

Operation screen of touch panel

1 Initial screen



Japanese

English language switch possible

2 Screen of operation control



Displays real-time revolution speed and vacuum pressure

3 Screen of utility selection



Shows total number of operations and total operation time in a table

Screen for editing recipe



Viewing and editing of all steps in one screen possible

5 Screen for recipe-name input



Upper and lower case letters and numerals can be input.

6 Example of alarm display



Error details, explanation of cause, and recommended action are displayed together with the error number.

ARV-310P: Product Specification

Method		Vacuum type, propellerless, rotation and revolution mixing method
Range of operation time		From 00 minutes 00 seconds to 30 minutes 00 seconds (The total operation time can be set at maximum 30 minutes in units of 1 second)
Revolution	speed	Maximum 2000 rpm (0 rpm and range from 200 to 2000 rpm in units of 10 rpm)
Rotation speed		Maximum 1000 rpm (automatically set to be the half of the revolution speed)
Number of memories		20 memories (five steps can be registered in each)
Container		300 ml and 150 ml, made of HDPE
Maximum &	Atmospheric pressure	When using 300 ml container: 250 ml / 310 g When using 150 ml container: 120 ml / 310 g
minimum quantity processed	Vacuum operation	When using 300 ml container: 200 ml / 310 g When using 150 ml container: 100 ml / 310 g

Vacuum	chamber	Rotary part vacuum chamber system	
Power	Voltage	Single-phase AC 100 V \pm 10%, 50 kHz / 60 kHz	
supply	Power consumption	During standby: about 50 VA During operation: Maximum 1200 VA (except at startup)	
Operatio	n environment	- 10 to 35°C, 35 to 85% RH (no condensation) - Altitude lower than 2000 m	
Main bo	dy dimensions	450 mm (H) \times 555 mm (W) \times 645 mm (D)	
Body we	ight	About 90 kg	
Switch / display unit Communication function (RS232C) Others		Touch panel (4.3 inches)	
		Data collection function (Traceability function) Operation start and stop, recipe editing and saving, using an external terminal	
		Real-time display of rpm during operation, function of setting recipe name	

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